

1. Modular acetabular reconstruction apparatus,
2 comprising:

3 a generally cup-shaped portion having a peripheral
4 rim and back surface adapted for fixation within a human
5 pelvis; and

6 ^{at least one} ~~one or~~ malleable extension arm^s connected to the rim
7 of the cup-shaped portion, each ^{of said} arm including ^{at least one} ~~one or more~~
8 apertured sections^s spaced apart from ^{said rim and/or} one another by a necked-
9 down section enabling each ^{of said} arm to be manipulated in three
10 dimensions in intimate conformity with surrounding bone.

2. The modular acetabular reconstruction apparatus
2 of claim 1, including:

3 at least one ^{of said} malleable extension arm^s ^{positioned on said cup-shaped portion} ~~adapted~~ for
4 overlying contact with the ilium of a human pelvis.

3. The modular acetabular reconstruction apparatus
2 of claim 1, including:

3 at least one ^{of said} malleable extension arm^s ^{positioned on said cup-shaped portion} ~~adapted~~ for
4 overlying contact with the ischium of a human pelvis.

4. The modular acetabular reconstruction apparatus
2 of claim 1, including:

3 two ^{of said} ~~adjacent~~ malleable extension arms^s ^{12/24} ~~adapted~~ for
4 overlying contact with the bone surrounding the acetabulum;
and

6 an apertured bridge element between ^{said adjacent extension} ~~the two~~ arms.

5. The modular acetabular reconstruction apparatus
P 2 of claim 1, wherein ^{said} ~~the~~ back surface of ^{said} ~~the~~ generally cup-
shaped portion is adapted for a non-cemented interface within
4 a human pelvis.

6. The modular acetabular reconstruction apparatus
A 2 of claim 4, wherein ^{said} ~~the~~ non-cemented interface is configured
for porous bone in-growth.

7. The modular acetabular reconstruction apparatus
2 of claim 1, further including a bearing surface adapted for
cementation within ^{said} ~~the~~ cup-shaped portion.
P

8. The modular acetabular reconstruction apparatus
2 of claim 1, further including a bearing surface adapted for
cementless installation within ^{said} ~~the~~ cup-shaped portion.
P

9. A method of treating a human acetabulum,
2 comprising the steps of:

providing a prosthetic element having a generally
4 cup-shaped portion back surface adapted for fixation within
the acetabulum and a peripheral rim including ^{at least one} ~~one or~~ malleable
A 6 arms ^{of said} extending outwardly therefrom, each ^{at least one} ~~one or~~
more apertured sections ^{said rim and/or} spaced apart from ^{of said} ~~one~~ another by a
A 8 necked-down section enabling each ^{of said} ~~arm~~ to be manipulated in
three dimensions in intimate conformity with surrounding bone;

12

862220-84FE2160

10 installing ^{said} ~~the~~ cup-shaped portion such that ^{said} ~~the~~ back
surface thereof is in physical conformity with the acetabulum
12 and ^{said} ~~the~~ extension arms generally overly surrounding bone;
bending each arm in multiple dimensions, as
14 required, so that each ^{of said} arm is in intimate physical conformity
with the surrounding bone; and
16 fastening each ^{of said} arm to the surrounding bone, thereby
18 stabilizing ^{said} ~~the~~ position of ^{said} ~~the~~ cup-shaped portion with ^{said} ~~the~~
acetabulum.

10. The method of claim 9, wherein the step of
2 bending each ^{of said} arm in multiple dimensions is carried out ^{as} ~~a~~ part
of a trial joint reduction.

11. The method of claim 9, wherein the step of
2 bending each ^{of said} arm in multiple dimensions is carried out by
applying a tool to adjacent apertured sections of ^{said} ~~a particular~~
4 arm and manipulating the tools to bend ^{said} ~~the~~ arm.

12. The method of claim 11, wherein each tool
2 includes a distal end adapted for engagement with ^{said} ~~an~~ aperture
and a protrusion which interacts with the protrusion of the
4 other tool to provide leverage during bending.

13. The method of claim 11, wherein:
2 each apertured section includes an outer shape; and
each tool includes a socket portion configured to

4 engage with the outer shape.

14. The method of claim 9, further including the
2 steps of:

providing a bearing surface; and
A 4 cementing ^{said} ~~the~~ bearing surface into ^{said} ~~the~~ cup-shaped
portion.

15. The method of claim 9, further including ^{said} ~~the~~
2 steps of:

providing a bearing surface; and
A 4 installing ^{said} ~~the~~ bearing surface into ^{said} ~~the~~ cup-shaped
P portion without ^{said} ~~the~~ use of cement.